

# CM62 Micro Gimbal Suite

## The Next Generation of sUAS Payloads



### The highest performance for the lowest size, weight, and power

The CM62 is a miniature, gyro-stabilized imaging system designed for intelligence, surveillance, reconnaissance, and targeting. CACI offers three variants to deliver actionable intelligence tailored to various mission sets. The original CM62 provides an all-purpose camera system, complete with a high-definition (HD) electro-optical (EO) sensor and long-wave infrared (LWIR) sensor capable of high performance day and night and weighing only .57lb (260g). The CM62 LWIR+ variant offers additional nighttime LWIR zoom capabilities in addition to the HD EO, with a mere .01lb (5g) extra weight. The CM62 EO+ replaces the LWIR with an additional EO sensor to deliver even greater ultra-zoom daytime performance for increased detection, recognition, and identification distances of targets. The suite of compact small unmanned aerial system (sUAS) payloads deliver high performance imaging for the lowest size, weight, and power.

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expertise and technology, visit:

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## Technical Specifications

Gimbal Specifications	
Mechanical Axes	2 (pan and tilt)
Slew Rate	360°/s (acceleration 1500°/s <sup>2</sup> )
Encoder Resolution	16 bits (0.00549°)
Gimbal Features	Rate control Gyro-stabilization Attitude control Follow mode Stow mode GEO-Lock
Voltage	12 - 36V
Power	Idle 11W / Peak 40W
Communication	Ethernet / RS232 Communication libraries available
Temperature	-10°C to +50°C / +14°F to +122°F (Subject to integration conditions)
Ingress Protection	IP67
Shock Limit	40G

Video Specifications	
Video Processing Features	Multi-sensor streaming Encoding on board Recording on board Object tracking E-stabilization Roll stabilization Scene steering Automated on-board target identification
Digital Output	H.264 MPEG2 TS / H.265 MPEG2 TS
Snapshot Resolution Stored on Board	1920x1080 or 1280x720 (EO) 640x480 (IR)
Standards	MISB (0601.7, 0603.2, 0604.3 & 0903.3) & STANAG (4609) compliant

## Variants

	CM62 (Standard)	CM62 LWIR+	CM62 EO+
Weight	.57lb (260g)	.58lb (265g)	.64lb (290g)
Maximum Swept Diameter	3in (76mm)		3.1in (78mm)
Ball Swept Diameter	2.6in (65mm)		
Height	4in (103mm)		
Elevation	+90° - 210° from Horizontal		+50.5° - 210° from Horizontal
Azimuth	±172° (Simulated 360° Continuous Rotation)		
<b>Electro-Optical</b>			
Resolution	1080p, 720p, 640x480		
HFoV	Continuous 56° to 1.2°		Continuous 56° to 0.8° Spotter 5° to 0.8°
Frame Rate	30Hz		
<b>Thermal LWIR</b>			
Resolution	640x480		N/A
HFoV	32°	18°	
Frame Rate	30Hz		



CM62 Original Day & Night Performance



CM62 LWIR+ Day & Extended Night Performance



CM62 EO+ Ultra-Zoom Extended Day Performance

This material consists of CACI International Inc general capabilities information that does not contain controlled technical data as defined within the International Traffic in Arms Regulations (ITAR), Part 120.10, or Export Administration Regulations (EAR), Part 734.7-10. (PRR ID764)



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for National Security

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